

# SEQUENCE LISTING

<110> Chye, Mee Len  
 Xu, Zeng-Fu  
 Sin, Suk Fong

<120> Genetically Modified Plants with Heterogenous Proteinase Inhibitor  
 SaPIN2A or SaPIN2B and Methods of Use Thereof for the Inhibition  
 of Trypsin- and Chymotrypsin-Like Activities

<130> 9661-043-999

<140>

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<150> 60/429,992

<151> 2002-11-29

<160> 14

<170> PatentIn version 3.2

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<211> 529

<212> DNA

<213> Solanum americanum

<400> 1

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Glu Cys Gly His Phe Ser Tyr Gly Ile Cys Pro Arg Ser Glu Gly Ser  
 35 40 45

Pro Gln Lys Pro Ile Cys Thr Asn Cys Cys Ser Gly Tyr Lys Gly Cys  
 50 55 60

Asn Tyr Tyr Ser Ala Lys Gly Asp Leu Ile Cys Glu Gly Glu Ser Asp  
 65 70 75 80

Pro Arg Asn Pro Lys Asp Cys Thr Phe Glu Cys Asp Thr Gln Ile Ala  
 85 90 95

Tyr Ser Lys Cys Pro Arg Ser Glu Gly Lys Met Ile Ile Lys Pro Thr  
 100 105 110

Gly Cys Thr Thr Cys Cys Thr Gly Tyr Gln Gly Cys Tyr Tyr Phe Asp  
 115 120 125

Gln Asp Gly Asp Phe Val Cys Glu Gly Glu Ser Pro Glu Pro Lys Thr  
 130 135 140

Thr Ala Tyr Phe  
 145

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35 40 45

Ser Glu Gly Ser Pro Glu Asn Pro Ile Cys Thr Asn Cys Cys Ser Gly  
50 55 60

Tyr Lys Gly Cys Asn Tyr Tyr Ser Ala Asn Gly Thr Phe Ile Cys Glu  
65 70 75 80

Gly Ser Ser Asp Pro Lys Asn Pro Asn Thr Cys Pro Leu Phe Cys Asp  
85 90 95

Gly Asp Ile Ala Tyr Ser Lys Cys Pro Arg Ser Glu Gly Glu Thr Ile  
100 105 110

Ile Tyr Pro Thr Gly Cys Thr Thr Cys Cys Thr Gly Tyr Lys Gly Cys  
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Tyr Tyr Phe Ser Lys Glu Gly Glu Phe Val Cys Glu Gly Glu Ser Asp  
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Glu Pro Asn Val Ile Ser Asn Gln  
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